



## BWP AQ 09

### Instructions and Supporting Materials

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#### Introduction

MassDEP *Permit Applications*, as well as *Instructions & Support Materials*, are available for download from the MassDEP Web site at [mass.gov/dep](http://mass.gov/dep) in two file formats: Microsoft Word™ and Adobe Acrobat PDF™. Either format allows documents to be printed.

*Instructions & Support Materials* files in Microsoft Word™ format contain a series of documents that provide guidance on how to prepare a permit application. Although we recommend that you print out the entire package, you may choose to print specific documents by selecting the appropriate page numbers for printing.

*Permit Applications* in Microsoft Word™ format must be downloaded separately. Users with Microsoft Word™ 97 or later may complete these forms electronically.

Permitting packages in Adobe Acrobat PDF™ format combine *Permit Applications* and *Instructions & Support Materials* in a single document. Adobe Acrobat PDF™ files may only be viewed and printed without alteration. *Permit Applications* in this format may not be completed electronically.



## BWP AQ 09 Permit Fact Sheet

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### 1. What is the purpose of this approval?

A **Restricted Emission Statute** approval is a plan approval legally limiting the amount of potential emissions (see definition in Question 2 of these instructions) from your facility through a restriction on the raw materials used. Your facility's potential emissions determine the air quality regulations with which you must comply and the annual compliance fee you must pay.

Regulation 310 CMR 7.02(12) provides for Restricted Emission Status approvals. The legal authority for this regulation is MGL Chapter 111, sections 142B and 142D.

For specific information on who may or must apply for a Restricted Emission Status approval refer to 310 CMR 7.02(12). The application material submitted to MassDEP and the plan approval letter become the approval.

### 2. Who must apply?

You must file a Restricted Emission Status Plan if you wish to:

- a. change a facility's classification pursuant to 310 CMR 4.00 for compliance fee purposes;
- b. limit potential emissions to remain below the applicable thresholds requiring filing of an Emission Control Plan (pursuant to 310 CMR 7.18 - VOC RACT or 310 CMR 7.19 - NO<sub>x</sub> RACT);
- c. limit potential emissions to remain below "major source" thresholds requiring filing of an Operating Permit (pursuant to 310 CMR 7.00 Appendix C);
- d. limit potential emissions for purposes of applicability of any other air quality regulation.

**Potential to Emit or Federal Potential Emissions** means the maximum capacity of a stationary source to emit a regulated pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit a regulated pollutant, including air pollution control equipment and restriction on hours of operation or in the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is **federally enforceable**.

#### To be federally enforceable:

- a limitation on any facility's capacity to emit a pollutant shall include testing, monitoring, and record keeping procedures sufficient to demonstrate compliance with the limitations. Examples of permit or SIP limitations generally considered federally enforceable are limitations on the allowable capacity of the equipment, requirements for the installation, operation and maintenance of pollution control equipment, limits on hours of operation, and restrictions on amounts of materials combusted, stored, or produced.
- restrictions on operation, production, or emissions must be stated in terms of the shortest averaging time that can be used as a practical matter, e.g., pounds per hour, or gallons per hour, and they must be tied to other enforceable operating restrictions at the source. General limitations on potential to emit, such as yearly limits (e.g., in tons per year), by themselves, are not considered federally enforceable. The use of hourly, daily, weekly, or monthly rolling limits are generally acceptable.

Any federally enforceable limitations or conditions must be enforceable as a practical matter, ensure continuous compliance with the restrictions, and include adequate testing, monitoring, and record keeping procedures sufficient to demonstrate compliance with the limitations or conditions of an applicable federally enforceable document described above. Fugitive emissions, to the extent quantifiable, are included in



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determining the potential to emit of a stationary source. Secondary emissions do not count in determining the potential to emit of a stationary source.

Refer to the specific regulations for details on requirements and qualifications.

### 3. What other requirements should be considered when applying for this approval?

This form is not to be used in applying for approval to construct or modify any source, nor may this form be used to contravene the requirements of any written approval issued by the Department.

Please note that even if you restrict potential VOC emissions to below "major source" status (i.e. 50 tons per year), if your VOC emissions include 10 or more tons per year of a single Hazardous Air Pollutant (HAP) or 25 or more tons per year of any combination of HAPs, your facility would still be "major" and thus would still be subject to Operating Permit as contained in 310 CMR 7.00 Appendix C. See list of HAPs attached to application form.

### 4. What is the application fee for this approval?

The application fee is \$1,550.

### 5. What is the Primary Approval Location? What is the Reserve Copy Location?

Primary Approval Location:  
**Dep't. of Environmental Protection**  
\* Regional Office  
**Air Quality Control**

Reserve Copy Location:  
**Dep't. of Environmental Protection**  
\* Regional Office  
**Air Quality Control**

\*Find your region: <http://mass.gov/dep/about/region/findyour.htm>

As indicated above, all completed application packages should be submitted in duplicate (one primary copy, one reserve copy) to the appropriate regional office for review and approval.

Upon approval of the application, MassDEP stamps the photocopy and returns it to you for your records. In this manner, MassDEP and the applicant have identical copies of the approved submittal.

You must use Form BWP AQ 09 - Restricted Emission Status when filing.

### 6. What are the timelines for these plan approvals?

As of February 25, 1994, the timelines are:

	<b>AC</b>	<b>T1</b>	<b>T2*</b>	<b>PC</b>
<b>BWP AQ 09</b>	30	90	60	10

\*A second technical review will only be conducted if necessary.

### 7. What is the annual compliance fee for this approval?

The amount of the annual compliance assurance fee is depends on the facility's total potential emissions. Please consult Table 4.03, (Air Quality section) of 310 CMR 4.03 for more information. If you fail to pay the annual compliance assurance fee, your approval could be suspended or revoked.



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**8. How long is this approval in effect?**

The approval is in effect until the facility approved by this action is substantially reconstructed or altered, or until such time as the restrictions approved herein are modified. Both these cases require a new approval before such changes occur.

**9. How can I avoid the most common mistakes made in applying for this approval?**

- a. Answer all questions on the application form and indicate "N/A" (not applicable) where appropriate.
- b. Submit all supplementary information requested in the application.
- c. Submit two copies of the application to the regional office for review. Find your region:  
<http://mass.gov/dep/about/region/findyour.htm>
- d. Submit fee and one copy of the MassDEP Transmittal Form  
<http://mass.gov/dep/service/online/trasmfrm.shtml> to: Department of Environmental Protection, P.O. Box 4062, Boston, MA 02211.

**10. What are the regulations that apply to this approval? Where can I get copies?**

These regulations include, but are not limited to:

- a. Air Pollution Control Regulations, 310 CMR 6.00 - 8.00.
- b. Timely Action and Fee Provisions, 310 CMR 4.00.
- c. Administrative Penalty Regulations, 310 CMR 5.00.

They may be purchased at:

**State House Bookstore**  
**Room 116**  
**Boston, MA 02133**  
**617-727-2834**

**State House West Bookstore**  
**21 Elm Street**  
**Springfield, MA 01103**  
**413-784-1376**



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### Operating Restrictions

**Section G:** Provide the restriction that will be used to define emissions. The form presumes a fuel or raw material restriction in Item #1, by individual unit, but you are not confined to this option. Alternatives can be described in Item #2. The following briefly describes the intent and requirements of a restriction.

Many regulations in Air Quality are based not on actual emissions, but rather on potential emissions. Simply stated, potential emissions are the amount of emissions that will never be exceeded (usually defined on a yearly basis). While the actual emissions may vary year to year depending upon many factors, these emissions will never exceed the potential.

**Without restrictions** imposed, potential emissions are the emissions that would result if the equipment operated at 100% of its rated capacity, 100% of the time (24 hours per day, 7 days per week, 52 weeks per year).

**With restrictions** imposed, potential emissions can be defined as something less than 100% rated capacity, 100% of the time.

Examples of restrictions are:

- Limit on the amount of fuel burned.
- Limit on the amount of raw material processed.
- Limit on the production rate (derating the equipment).
- Limit on the hours of operation.
- Equipment modifications to limit throughput.

The major considerations in choosing a restriction are:

**Facility Needs.** Do not propose a restriction which would be unreasonable for the facility. These restrictions are enforceable by law and the facility can be subject to enforcement actions including substantial penalties for exceeding a restriction.

**Time Frames.** Restrictions must be expressed as a short term rate (for example, per hour, day, or month) and as a yearly (12 month rolling calendar period) rate.

**Enforceability.** Any restriction proposed must be verifiable as a practical matter. A proposal to restrict emissions to 1 ton per month of NO<sub>x</sub>, for example, is unverifiable. However, a proposal to restrict usage of #2 fuel oil to 50,000 gallons per month is readily verifiable through records of fuel purchases at the facility. (See Section J).

For further information, refer to the definition of potential emissions and EPA's June 13, 1989 guidance entitled "Guidance on Limiting Potential to Emit in New Source Permitting" (copy attached).

### Emissions

**Section H:** Provide the equipment emission rate and calculate total emissions based on this rate, and the restrictions specified in Section D. Attach any necessary calculations.

**Emission Rate** is the rate at which the equipment emits a pollutant. For combustion equipment, this rate is usually specified in terms of lbs per million BTU, lbs per gallon of fuel, lbs per pound of fuel, lbs per horsepower, etc. For other equipment the rate is usually in lbs per hour but can be based on other units. Emission rates are



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very dependent upon individual equipment, air pollution control equipment and fuels used. Each unit is a unique case, but emission rates can be determined from:

**Approvals or emission standards.** If the unit has been previously approved, in writing, by the MassDEP, or is subject to a standard, and an emission rate was established, this is the preferred source for emission rates.

**Testing.** Testing of the unit could yield an accurate emission rate.

**Manufacturers information.** Often manufacturers can provide data on emission rates for a particular unit.

**Standard factors.** Standard emission factors are available for a limited number of sources. These are listed below, but should only be used as a last resort. Refer to EPA document AP-42 "Compilation of Air Pollution Emission Factors" and other documents for details.

**Engineering estimates.** Estimates can sometimes be derived from other information with certain assumptions. For example, SO<sub>x</sub> emission rates can be calculated assuming a maximum sulfur content in fuel and total conversion to SO<sub>x</sub>. VOC emissions can be calculated assuming all VOC in a coating is emitted.

**Standard Factors** (For use only when no other information is available):

### Boilers and Ovens:

#### Sulfur Dioxide (SO<sub>2</sub>);

- 2 pounds of SO<sub>2</sub> emitted for every pound of sulfur contained in the fuel (Use the maximum legal sulfur content possible, lbs per BTU).

#### Nitrogen Oxides (NO<sub>x</sub>);

- 67 lbs of NO<sub>x</sub> for every 1,000 gallons of oil burned in boilers > 100 million Btu/hr.
- 55 lbs of NO<sub>x</sub> for every 1,000 gallons of oil burned in boilers 0.5 to 100 million Btu/hr using residual fuels (#6, #5, #4).
- 20 lbs of NO<sub>x</sub> for every 1,000 gallons of oil burned in boilers 0.5 to 100 million Btu/hr using distillate fuels (#2, #1).
- 18 lbs of NO<sub>x</sub> for every 1,000 gallons of oil burned in boilers less than 0.5 million Btu/hr using distillate fuels (#2, #1).
- 550 lbs of NO<sub>x</sub> for every 1,000,000 cubic feet of gas burned in boilers >100 million Btu/hr.
- 140 lbs of NO<sub>x</sub> for every 1,000,000 cubic feet of gas burned in boilers 10 to 100 million Btu/hr.
- 100 lbs of NO<sub>x</sub> for every 1,000,000 cubic feet of gas burned in boilers less than 10 million Btu/hr.

### Diesel Engines, Turbines and Other Combustion Equipment;

SO<sub>2</sub> : Calculated as indicated for boilers.

NO<sub>x</sub> : Calculated from equipment manufacturers specifications (or as contained in a written MassDEP approval).

**Total Emissions** are the emission factors multiplied by the short term and twelve month rolling calendar period restrictions, accounting for any necessary conversions. For example, a boiler that emits 20 lbs of NO<sub>x</sub> per 1,000 gallons of fuel and has a fuel restriction of 2,000 gallons per month would have potential emissions of 40 lbs per month of NO<sub>x</sub>. A facility that emits 7.5 lbs of VOC per gallon of coating and has a restriction of 100 gallons of that coating per month would have potential emissions of 750 lbs per month of VOC.



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## **BWP AQ 09 Potential Emission Restriction Permit Application Completeness Checklist**

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- ☐ The MassDEP Transmittal Form is completed: <http://mass.gov/dep/service/online/trasmfrm.shtml>
- ☐ All questions have been answered (N/A has been inserted where appropriate).
- ☐ A signature of the legally responsible official has been included even if an agent has been hired to complete the application. See definitions in 310 CMR 7.00.
- ☐ Two complete copies of the application are being transmitted for review to Air Quality Control at the appropriate MassDEP Regional Office.

To submit the application package:

- ☐ Checklist items have been completed.
- ☐ Send two copies of the application along with one copy of the MassDEP Transmittal Form to:  
  
Department of Environmental Protection  
\_\_\_\_\_ \* Regional Office  
Air Quality Control  
\*Find your region: <http://mass.gov/dep/about/region/findyour.htm>
- ☐ Send fee of \$1,550 in the form of check or money order made payable to *Commonwealth of Massachusetts*, along with one copy of the MassDEP Transmittal Form to:

Department of Environmental Protection  
P.O. Box 4062  
Boston, MA 02211

# BWP AQ 09

## Restricted Emission Status Application

Facility ID# (if known)

### A. Facility Information

**Important:**  
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1.
2.
3.
4.

## Plan Application Preparer

- |    |  |       |          |
|----|--|-------|----------|
| 1. | Person who compiled the plan's application materials |       |          |
| 2. | Representing   |       |          |
| 3. | Address  |       |          |
| 4. | City/Town  | State | Zip Code |
| 5. | Telephone Number (including extension)               |       |          |
| 6. | Date Completed                                       |       |          |

## B. Applicability

This form is used to apply for a Restricted Emissions Status (RES) in accordance with 310 CMR 7.02(12). Please check all that apply:

- ☐ 1. restrict potential emissions to allow redesignation, for purposes of compliance fees (310 CMR 4.03); or
- ☐ 2. restrict potential emissions below the Reasonably Available Control Technology (RACT) applicability thresholds for Volatile Organic Compounds (VOCs) (310 CMR 7.18); or
- ☐ 3. restrict potential emissions below the Reasonably Available Control Technology (RACT) applicability thresholds for nitrogen oxides (NO<sub>x</sub>) (310 CMR 7.19); or
- ☐ 4. restrict potential emissions below the Reasonable Available Control Technology (RACT) applicability thresholds for halogenated organic compounds (HOCs) (310 CMR 7.18); or
- ☐ 5. restrict potential emissions below operating permit program (310 CMR 7.00, appendix C) thresholds; or
- ☐ 6. restrict potential emissions for any other applicable requirement.

This form is not to be used in applying for approval to construct or modify any source, nor may this form be used to contravene the requirements of any written approval issued by the Department.





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## Restricted Emission Status Application

Transmittal Number \_\_\_\_\_

Facility ID# (if known) \_\_\_\_\_

### Pollutant(s) Restricted

Check all that are applicable:

- ☐ Sulfur Dioxide
- ☐ Oxides of Nitrogen (NO<sub>x</sub>)
- ☐ Volatile Organic Compounds (VOC)
- ☐ Halogenated Organic Compounds (HOC)
- ☐ Hazardous Air Pollutants (HAP)
- ☐ Other (Describe): \_\_\_\_\_

Please note that even if you restrict potential VOC emissions to below "major source" status (i.e. 50 tons per year), if your VOC emissions include 10 or more tons of a single HAP or 25 or more tons of any combination of HAPs, your facility would still be "major" thus would still be subject to operating permits at 310 CMR 7.00 Appendix C. See attached list of HAPs beginning on page 9.

### Supplemental Information

Include all supplemental information necessary to document/substantiate this restriction including but not limited to:

- ☐ raw material formulation specifications
- ☐ equipment design literature
- ☐ examples of recordkeeping
- ☐ calculations

### C. Facility Emission History

This form is for the restriction of POTENTIAL EMISSIONS as described in Sections G and H as well as in the instructions of this form.

For each pollutant which is to be restricted by this approval complete the following, where:

**Current Potential Emissions** means the potential for the entire facility as it currently exists, accounting for any and all previous approvals and/or restrictions.

**Actual Baseline Emissions** means the highest actual emissions for this facility since 1990. Note on a separate piece of paper any changes to the facility that are accounted for in that year's emissions (for example, equipment added or removed).



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## Restricted Emission Status Application

Transmittal Number \_\_\_\_\_

Facility ID# (if known) \_\_\_\_\_

### C. Facility Emission History (cont.)

**Proposed Potential Emissions** means the potential that will be established by this project. You will have to complete the rest of this form before completing this section. Be sure this value is the same as indicated in Section H.

**Warning:** There may be limits on what you may propose as Potential Emissions based on Current Potential and Actual Baseline Emissions. Specifically, this application cannot be used to avoid or RACT requirements if actual emissions (of VOC, NO X ) have exceeded 50 TPY since calendar year 1990.

Air Contaminant*	Current Potential Emissions (TPY)**	Actual Baseline Emissions (TPY)	Proposed Potential Emissions (YPY)
Particulate:			
SO <sub>2</sub>	_____	_____	_____
NO <sub>x</sub>	_____	_____	_____
VOC	_____	_____	_____
HOC	_____	_____	_____
HAP (list):			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
Other (specify):			
_____	_____	_____	_____

\* Complete  
Only for air  
contaminants  
that will be  
affected by this  
approval.

\*\* TPY = tons  
per year

### D. Historical Usages

Indicate quantity of fuel or raw materials used in year since January 1, 1990, inclusive, that resulted in the Actual Baseline Emissions as reported in Section C - Facility History. (Indicate gallons, cubic feet, pounds, etc.)

	Unit No.	Unit No.	Unit No.	Total
1. Primary fuel used	_____	_____	_____	_____
2. Auxiliary fuel used	_____	_____	_____	_____
3. Raw material				
I. _____	_____	_____	_____	_____
II. _____	_____	_____	_____	_____
III. _____	_____	_____	_____	_____



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## Restricted Emission Status Application

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Facility ID# (if known) \_\_\_\_\_

### E. Equipment Description – Fuel Utilization Equipment

Complete this section, Fuel Utilization Equipment and/or Section F, Process Equipment, depending upon the source of the emissions for which you are seeking a restriction.

(use additional pages, if necessary)

	Unit No.	Unit No.	Unit No.
1. Type of Equipment (boiler, oven, space heater, diesel, etc.)	_____	_____	_____
2. Manufacturer	_____	_____	_____
3. Model Number	_____	_____	_____
4. Maximum Input Rating (Btu/hr)	_____	_____	_____
5. Burner Manufacturer	_____	_____	_____
6. Model Number	_____	_____	_____
7. Number of Burners in Each Combustion Unit	_____	_____	_____
8. Primary Fuel			
a. Type and Grade	_____	_____	_____
b. Sulfur Content (% by weight)	_____	_____	_____
c. Maximum Fuel Firing Rate (All burners firing) (indicate gal/hr, lbs/hr, cubic feet per hour, etc.)	_____	_____	_____
9. Standby or Auxiliary Fuel			
a. Type and Grade	_____	_____	_____
b. Sulfur Content (% by weight)	_____	_____	_____
c. Maximum Fuel Firing Rate (All burners firing) (indicate gal/hr, lbs/hr, cubic feet per hour, etc.)	_____	_____	_____
10. Date of Installation	_____	_____	_____
11. Modification Since Installation			
a. Type of Modification	_____	_____	_____
b. Date of Modification	_____	_____	_____



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## Restricted Emission Status Application

Transmittal Number \_\_\_\_\_

Facility ID# (if known) \_\_\_\_\_

### E. Equipment Description – Fuel Utilization Equipment (cont.)

	Unit No.	Unit No.	Unit No.
12. DEP Air Quality Approvals (if applicable)			
a. Approval Number	_____	_____	_____
b. Date of Approval	_____	_____	_____
c. Modifications to Approval (describe):			
Date	_____	_____	_____
Approval Number	_____	_____	_____

### F. Equipment Description – Process Equipment

	Unit No.	Unit No.	Unit No.
1. Type of Equipment (Coater, Paint Spray Booth, Degreaser, etc.)	_____	_____	_____
2. Manufacturer	_____	_____	_____
3. Model Number	_____	_____	_____
4. Maximum Process Rate* (include amount with units, i.e. gal/hr, lbs/hr, etc.)			
a. raw material(s) (list)			
i. _____	_____	_____	_____
ii. _____	_____	_____	_____
b. finished material(s) (list)			
i. _____	_____	_____	_____
ii. _____	_____	_____	_____

\* Refers to the maximum rate at which the piece of equipment can utilize raw (or produce finished) materials. This is not the equipment normal operation rate but rather its absolute design capacity.



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### F. Equipment Description – Process Equipment (cont.)

	Unit No.	Unit No.	Unit No.
5. Date of Installation	_____	_____	_____
6. Modifications Since Installation			
a. Type of Modification	_____	_____	_____
b. Date of Modification	_____	_____	_____
12. DEP Air Quality Approvals (if applicable)			
a. Approval Number	_____	_____	_____
b. Date of Approval	_____	_____	_____
c. Modifications to Approval (describe):	_____ _____ _____		
Date	_____	_____	_____
Approval Number	_____	_____	_____

**Note: See instructions to complete section G.**

Complete Section I – Fuel Utilization Equipment Restriction and/or Section II – Process Equipment Restriction, depending upon the source of the emissions for which you are seeking a restriction.

This restriction can never be exceeded without prior written Department approval.

### G. Operating Restriction

#### I. Fuel Utilization Equipment Restriction

##### 1. Fuel Restriction – Enter amount and units (gallons, cubic feet, etc.):

###### a. Short term rate (check one):

- ☐ per month  
☐ per day  
☐ per hour  
☐ other \_\_\_\_\_  
(may not be any longer than “per month”)

	Unit No.	Unit No.	Unit No.	Total
primary fuel	_____	_____	_____	_____
auxiliary fuel	_____	_____	_____	_____



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### G. Operating Restriction (cont.)

	Unit No.	Unit No.	Unit No.	Total
b. Twelve month rolling calendar period rate:				
primary fuel	_____	_____	_____	_____
auxiliary fuel	_____	_____	_____	_____
2. Alternative or additional restrictions. Describe any other physical or operational restriction on the capacity of the equipment to emit a pollutant (including air pollution control equipment):				
_____				
_____				

### II. Process Equipment Restriction

This emission restriction can never be exceeded without prior written Departmental approval. Carefully read the instructions and information.

#### 1. Raw Material Restriction – Enter amount and units (gallons, pounds, etc.)

##### a. Short term rate (check one):

- ☐ per month  
☐ per day  
☐ per hour  
☐ other \_\_\_\_\_  
(may not be any longer than “per month”)

	Unit No.	Unit No.	Unit No.	Total
i. _____	_____	_____	_____	_____
ii. _____	_____	_____	_____	_____
b. Twelve month rolling calendar period rate:				
i. _____	_____	_____	_____	_____
ii. _____	_____	_____	_____	_____
2. Alternative or additional restrictions. Describe any other physical or operational restriction on the capacity of the equipment to emit a pollutant (including air pollution control equipment):				
_____				
_____				



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### H. Emissions

**Note: see instructions to complete section H.**

1. Emissions rate - For each pollutant you wish to restrict, provide emission rate for each unit (lbs/million BTU, lbs/hr, lbs/hp, lbs./unit product, lbs/gallon coating, etc.) and indicate basis of emission rate (Department approval letter, manufacturer information, emission factor, etc):

	Unit No.	Unit No.	Unit No.
a. SO <sub>2</sub>			
rate	_____	_____	_____
basis	_____	_____	_____
b. NO <sub>x</sub>			
rate	_____	_____	_____
basis	_____	_____	_____
c. VOC			
rate	_____	_____	_____
basis	_____	_____	_____
d. HOC			
rate	_____	_____	_____
basis	_____	_____	_____
e. HAP (list each HAP separately)			
i. _____			
Name	_____	_____	_____
rate	_____	_____	_____
basis	_____	_____	_____
ii. _____			
Name	_____	_____	_____
rate	_____	_____	_____
basis	_____	_____	_____

**Note for c. and d. –** Do not include HAP's if listing separately in item e.

**Note for e. –** Complete only if you wish to limit a particular HAP (see list attached). If HAP that you are restricting is also a VOC or HOC, do not include in item c. or d.



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Facility ID# (if known) \_\_\_\_\_

### H. Emissions (cont.)

**Note for f. –**  
“Other” refers to  
any other  
pollutant for  
which the facility  
is seeking a  
restriction, e.g.  
particulate or  
CO.

	Unit No.	Unit No.	Unit No.
iii. _____			
Name _____			
rate _____	_____	_____	_____
_____	_____	_____	_____

f. Other			
rate _____	_____	_____	_____
basis _____	_____	_____	_____

2. Total emissions – Provide emission totals using proposed restriction in part G (enter amount in tons of pollutant):

a. Short term rate (check one):

- ☐ per month  
☐ per day  
☐ per hour  
☐ other \_\_\_\_\_

(may not be any longer than “per month”)

	Unit No.	Unit No.	Unit No.
SO <sub>2</sub>	_____	_____	_____
NO <sub>x</sub>	_____	_____	_____
VOC	_____	_____	_____
HOC	_____	_____	_____
HAP			
I. _____	_____	_____	_____
II. _____	_____	_____	_____
III. _____	_____	_____	_____
Other	_____	_____	_____

“Other” refers to  
any other  
pollutant for  
which the facility  
is seeking a  
restriction, e.g.  
particulate or  
CO.





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Facility ID# (if known) \_\_\_\_\_

**H. Emissions (cont.)**

b. Twelve month rolling calendar period rate:

	Unit No.	Unit No.	Unit No.
SO <sub>2</sub>	_____	_____	_____
NO <sub>x</sub>	_____	_____	_____
VOC	_____	_____	_____
HOC	_____	_____	_____
HAP			
I. _____	_____	_____	_____
II. _____	_____	_____	_____
III. _____	_____	_____	_____
Other	_____	_____	_____

**I. Calculations**

Provide details of emission calculations (attach additional pages if necessary):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**J. Monitoring/Recordkeeping**

Indicate mechanism to verify operational restriction proposed in section G, including:

1. Monitors – Monitoring equipment may include fuel meters and recorders, hour meters and recorders, CEMs, temperature recorders, flow meters, etc.:
- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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#### J. Monitoring/Recordkeeping (cont.)

2. Recordkeeping - Describe records that will be kept and attach examples. Recordkeeping may include daily logs, meter charts, time logs, fuel purchase records, raw material records, disposal records, excess emission records, CEM records, test reports, etc.:

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#### K. Certification

This form must be signed by the owner or by a responsible company official working at the location of the source. Even if an agent has been designated to fill out this form, the owner or responsible officer must sign it.

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

Signed under the pains and penalties of perjury:

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Position/Title

\_\_\_\_\_  
Representing

\_\_\_\_\_  
Date



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## Restricted Emission Status Application

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### L. Hazardous Air Pollutants

#### Hazardous Air Pollutants

Name	CAS #
<input type="checkbox"/> Acetaldehyde	75-07-0
<input type="checkbox"/> Acetamide	60-35-5
<input type="checkbox"/> Acetonitrile	75-05-8
<input type="checkbox"/> Acetophenone	98-86-2
<input type="checkbox"/> 2-Acetylaminofluorene	53-96-3
<input type="checkbox"/> Acrolein	107-02-8
<input type="checkbox"/> Acrylamide	79-06-1
<input type="checkbox"/> Acrylic acid	79-10-7
<input type="checkbox"/> Acrylonitrile	107-13-1
<input type="checkbox"/> Allyl chloride	107-05-1
<input type="checkbox"/> 4-Aminobiphenyl	92-67-1
<input type="checkbox"/> Aniline	62-53-3
<input type="checkbox"/> o-Anisidine	90-04-0
<input type="checkbox"/> Asbestos	1332-21-4
<input type="checkbox"/> Benzene	71-43-2
<input type="checkbox"/> Benzidine	92-87-5
<input type="checkbox"/> Benzotrichloride	98-07-7
<input type="checkbox"/> Benzyl chloride	100-44-7
<input type="checkbox"/> Biphenyl	92-52-4
<input type="checkbox"/> Bis(2-ethylhexyl)phthalate	117-81-7
<input type="checkbox"/> Bis(chloromethyl)ether	542-88-1
<input type="checkbox"/> Bromoform	75-25-2
<input type="checkbox"/> 1,3-Butadiene	106-99-0
<input type="checkbox"/> Calcium cyanamide	156-62-7
<input type="checkbox"/> Captan	133-06-2
<input type="checkbox"/> Carbaryl	63-25-2
<input type="checkbox"/> Carbon disulfide	75-15-0
<input type="checkbox"/> Carbon tetrachloride	56-23-5
<input type="checkbox"/> Carbonyl sulfide	463-58-1
<input type="checkbox"/> Catechol	120-80-9
<input type="checkbox"/> Chloramben	133-90-4
<input type="checkbox"/> Chlordane	57-74-9
<input type="checkbox"/> Chlorine	7782-50-5
<input type="checkbox"/> Chloroacetic acid	79-11-8
<input type="checkbox"/> 2-Chloroacetophenone	532-27-4
<input type="checkbox"/> Chlorobenzene	108-90-7
<input type="checkbox"/> Chlorobenzilate	510-15-6
<input type="checkbox"/> Chloroform	67-66-3
<input type="checkbox"/> Chloromethyl methyl ether	107-30-2
<input type="checkbox"/> Chloroprene	126-99-8
<input type="checkbox"/> Cresols (mixed isomers)	1319-77-3
<input type="checkbox"/> m-Cresol	108-39-4
<input type="checkbox"/> o-Cresol	95-48-7
<input type="checkbox"/> p-Cresol	106-44-5
<input type="checkbox"/> Cumene	98-82-8
<input type="checkbox"/> 2,4-D, salts and esters	94-75-7
<input type="checkbox"/> DDE	3547-04-4

#### Hazardous Air Pollutants

Name	CAS #
<input type="checkbox"/> Diazomethane	334-88-3
<input type="checkbox"/> Dibenzofuran	132-64-9
<input type="checkbox"/> 1,2-Dibromo-3-chloropropane	96-12-8
<input type="checkbox"/> Dibutylphthalate	84-74-2
<input type="checkbox"/> 1,4-Dichlorobenzene	106-46-7
<input type="checkbox"/> 3,3-Dichlorobenzidine	91-94-1
<input type="checkbox"/> Dichloroethylether (Bis(2-chloroethyl)ether)	111-44-4
<input type="checkbox"/> 1,3-Dichloropropene (1,3-Dichloropropylene)	542-75-6
<input type="checkbox"/> Dichlorvos	62-73-7
<input type="checkbox"/> Diethanolamine	111-42-2
<input type="checkbox"/> N,N-Diethyl aniline (N,N-Dimethylaniline)	121-69-7
<input type="checkbox"/> Diethyl sulfate	64-67-5
<input type="checkbox"/> 3,3-Dimethoxybenzidine	119-90-4
<input type="checkbox"/> Dimethyl aminoazobenzene	60-11-7
<input type="checkbox"/> 3,3-Dimethyl benzidine	119-93-7
<input type="checkbox"/> Dimethyl carbamyl chloride	79-44-7
<input type="checkbox"/> Dimethyl formamide	68-12-2
<input type="checkbox"/> 1,1-Dimethyl hydrazine	57-14-7
<input type="checkbox"/> Dimethyl phthalate	131-11-3
<input type="checkbox"/> Dimethyl sulfate	77-78-1
<input type="checkbox"/> 4,6-Dinitro-o-cresol and salts	534-52-1
<input type="checkbox"/> 2,4-Dinitrophenol	51-28-5
<input type="checkbox"/> 2,4-Dinitrotoluene	121-14-2
<input type="checkbox"/> 1,4-Dioxane (1,4-Diethyleneoxide)	123-91-1
<input type="checkbox"/> 1,2-Diphenylhydrazine	122-66-7
<input type="checkbox"/> Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106-89-8
<input type="checkbox"/> 1,2-Epoxybutane (1,2-Butylene oxide)	106-88-7
<input type="checkbox"/> Ethyl acrylate	140-88-5
<input type="checkbox"/> Ethyl benzene	100-41-4
<input type="checkbox"/> Ethyl carbamate (Urethane)	51-79-6
<input type="checkbox"/> Ethyl chloride (Chloroethane)	75-00-3
<input type="checkbox"/> Ethylene dibromide (1,2-Dibromoethane)	106-93-4
<input type="checkbox"/> Ethylene dichloride (1,2-Dichloroethane)	107-06-2
<input type="checkbox"/> Ethylene glycol	107-21-1
<input type="checkbox"/> Ethylene imine (Aziridine)	151-56-4
<input type="checkbox"/> Ethylene oxide	75-21-8
<input type="checkbox"/> Ethylene thiourea	96-45-7
<input type="checkbox"/> Ethylidene dichloride (1,1-Dichloroethane)	75-34-3
<input type="checkbox"/> Formaldehyde	50-00-0
<input type="checkbox"/> Heptachlor	76-44-8
<input type="checkbox"/> Hexachlorobenzene	118-74-1
<input type="checkbox"/> Hexachloro-butadiene	87-68-3
<input type="checkbox"/> Hexachlorocyclopentadiene	77-47-4
<input type="checkbox"/> Hexachloroethane	67-72-1
<input type="checkbox"/> Hexamethylene-1,6-diisocyanate	822-06-0
<input type="checkbox"/> Hexamethylphosphoramide	680-31-9
<input type="checkbox"/> Hexane	110-54-3



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### L. Hazardous Air Pollutants (cont.)

#### Hazardous Air Pollutants

Name	CAS #
<input type="checkbox"/> Hydrazine	302-01-2
<input type="checkbox"/> Hydrochloric acid	7647-01-0
<input type="checkbox"/> Hydrogen fluoride	7664-39-3
<input type="checkbox"/> Hydrogen sulfide	7783-06-4
<input type="checkbox"/> Hydroquinone	123-31-9
<input type="checkbox"/> Isophorone	78-59-1
<input type="checkbox"/> Lindane	58-89-9
<input type="checkbox"/> Maleic anhydride	108-31-6
<input type="checkbox"/> Methanol	67-56-1
<input type="checkbox"/> Methoxychlor	72-43-5
<input type="checkbox"/> Methyl bromide (Bromomethane)	74-83-9
<input type="checkbox"/> Methyl chloride (Chloromethane)	74-87-3
<input type="checkbox"/> Methyl chloroform (1,1,1-Trichloroethane)	71-55-6
<input type="checkbox"/> Methyl ethyl ketone	78-93-3
<input type="checkbox"/> Methyl hydrazine	60-34-4
<input type="checkbox"/> Methyl iodide (Iodomethane)	74-88-4
<input type="checkbox"/> Methyl isobutyl ketone (Hexone)	108-10-1
<input type="checkbox"/> Methyl isocyanate	624-83-9
<input type="checkbox"/> Methyl methacrylate	80-62-6
<input type="checkbox"/> Methyl tert-butyl ether	1634-04-4
<input type="checkbox"/> 4,4-Methylenebis(2-chloroaniline)	101-14-4
<input type="checkbox"/> Methylene chloride (Dichloromethane)	75-09-2
<input type="checkbox"/> Methylene diphenyl diisocyanate(MDI)	101-68-8
<input type="checkbox"/> 4,4-Methylenedianiline	101-77-9
<input type="checkbox"/> Naphthalene	91-20-3
<input type="checkbox"/> Nitrobenzene	98-95-3
<input type="checkbox"/> 4-Nitrobiphenyl	92-93-3
<input type="checkbox"/> 4-Nitrophenol	100-02-7
<input type="checkbox"/> 2-Nitropropane	79-46-9
<input type="checkbox"/> N-Nitrosodimethylamine	62-75-9
<input type="checkbox"/> N-Nitrosomorpholine	59-89-2
<input type="checkbox"/> N-Nitroso-N-methylurea	684-93-5
<input type="checkbox"/> Parathion	56-38-2
<input type="checkbox"/> Pentachloronitrobenzene (Quintozene)	82-68-8
<input type="checkbox"/> Pentachlorophenol	87-86-5
<input type="checkbox"/> Phenol	108-95-2
<input type="checkbox"/> p-Phenylenediamine	106-50-3
<input type="checkbox"/> Phosgene	75-44-5
<input type="checkbox"/> Phosphine	7803-51-2
<input type="checkbox"/> Phosphorous	7723-14-0
<input type="checkbox"/> Phthalic anhydride	85-44-9
<input type="checkbox"/> PCBs	1336-36-3
<input type="checkbox"/> 1,3- Propane sultone	1120-71-4

#### Hazardous Air Pollutants

Name	CAS #
<input type="checkbox"/> beta-Propiolactone	57-57-8
<input type="checkbox"/> Propionaldehyde	123-38-6
<input type="checkbox"/> Propoxur (Baygon)	114-26-1
<input type="checkbox"/> Propylene dichloride (1,2 Dichloropropane)	78-87-5
<input type="checkbox"/> Propylene oxide	75-56-9
<input type="checkbox"/> 1,2-Propylenimine (2-Methyl aziridine)	75-55-8
<input type="checkbox"/> Quinoline	91-22-5
<input type="checkbox"/> Quinone	106-51-4
<input type="checkbox"/> Styrene	100-42-5
<input type="checkbox"/> Styrene oxide	96-09-3
<input type="checkbox"/> 2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6
<input type="checkbox"/> 1,1,2,2-Tetrachloroethane	79-34-5
<input type="checkbox"/> Tetrachloroethylene (Perchloroethylene)	127-18-4
<input type="checkbox"/> Titanium tetrachloride	7550-45-0
<input type="checkbox"/> Toluene	108-88-3
<input type="checkbox"/> 2,4-Toluene diamine	95-80-7
<input type="checkbox"/> Toluene-2,4-diisocyanate	584-84-9
<input type="checkbox"/> o-Toluidene	95-53-4
<input type="checkbox"/> Toxaphene	8001-35-2
<input type="checkbox"/> 1,2,4-Trichlorobenzene	120-82-1
<input type="checkbox"/> 1,1,2-Trichloroethane	79-00-5
<input type="checkbox"/> Trichloroethylene	79-01-6
<input type="checkbox"/> 2,4,5-Trichlorophenol	95-95-4
<input type="checkbox"/> Triethylamine	121-44-8
<input type="checkbox"/> Trifluralin	1582-09-8
<input type="checkbox"/> 2,2,4-Trimethylpentane	540-84-1
<input type="checkbox"/> Vinyl acetate	108-05-4
<input type="checkbox"/> Vinyl bromide	593-60-2
<input type="checkbox"/> Vinyl chloride	75-01-4
<input type="checkbox"/> Vinylidene chloride (1,1-Dichloroethylene)	75-35-4
<input type="checkbox"/> Xylene (mixed isomers)	1330-20-7
<input type="checkbox"/> m-Xylene	108-38-3
<input type="checkbox"/> o-Xylene	95-47-6
<input type="checkbox"/> p-Xylene	106-42-3

#### Arsenic compounds:

<input type="checkbox"/> Antimony	7440-36-0
<input type="checkbox"/> Arsenic	7440-38-2
<input type="checkbox"/> Arsine	7784-34-1
<input type="checkbox"/> Beryllium	7440-41-7
<input type="checkbox"/> Cadmium	7440-43-9
<input type="checkbox"/> Chromium	7440-47-3
<input type="checkbox"/> Cobalt	7440-48-4



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### L. Hazardous Air Pollutants (cont.)

#### Hazardous Air Pollutants

**Name**

**CAS #**

☐ Coke oven emissions

Cyanide compounds (XCN where X=H or any other group where a formal dissociation may occur):

☐ Hydrogen cyanide 74-90-8

☐ Glycol ethers (include mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OR' where n = 1, 2, or 3 R = alkyl or aryl groups R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R-(OCH<sub>2</sub>CH)<sub>n</sub>-OH. Polymers are excluded from the glycol category)

☐ Lead 7439-92-1

☐ Manganese 7439-96-5

☐ Mercury 7439-97-6

☐ Fine mineral fibers (includes glass microfibers, glass wool fibers, rock wool fibers and slag wool fibers, each characterized as "respirable" (fiber diameter < 3.5 micrometers) and possessing an aspect ratio (fiber length divided by fiber diameter) > 3)

☐ Nickel compounds 7440-02-0

☐ Polycyclic Organic Matters (POM) (includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 C)

☐ Radionuclides (a type of atom which spontaneously undergoes radioactive decay)

☐ Selenium 7782-49-2